Morgan MEDesign®, Inc.

BASIC-ONE™

Operating Manual

Manual Covers Models:

BASIC-ONE™ CSA - UL

c UL US

98/37/EC
89/336/EEC
73/23/EEC
93/42/EEC

CE®

c SA® US
190473

MORGAN MEDesign, Inc.
Custom designers and fabricators of medical special procedure tables

Always "Just What the Doctor Ordered"
947 Piner Place • Santa Rosa, CA 95403
Toll Free (888) 799-4633 • FAX: (707) 566-2925

December-2005 Version 2.2

About this Manual:

This manual covers the operational features of Morgan MEDesign™ tables from installation through system operation. Chapter 3 deals primarily with the operator based functions including patient loading and unloading, controls and safety considerations. Individuals trained as an operator of the product should focus in this area.

Chapters 4, 5 & 6 deal with upgrades, agency compliance and service and warranty information.

Safety considerations:

In any machine operation, safety practices must be strictly observed. Failure to do so may result in injury to operator or techincal personnel. **Do not under any circumstances fail to heed the warning labels provided on this product.** Throughout this manual, safety cautions will be denoted in bold, boxed areas like the example below.

Warning: Mechanical actuators may cause injury to personnel, do not place hands into moving machinery.

Specifications and information contained within this manual are subject to change without notice. The contents of this manual are the sole property of Morgan MEDesign™, Inc. (MMI) and may not be reproduced in whole or part without expressed written consent.

Warning: No user serviceable parts are contained within this product. Unauthorized servicing may void warranty. See Service and Warranty.

Table of Contents

1. Product Description and Features — ***Page 1***

2. How to Set-up the Table

   A. Facility requirements — ***Page 2***

   B. Connecting the electrical power — ***Page 2***

   C. Installation

      Locking the casters — ***Page 3***

3. Table Operation

   A. Definition of Table motions — ***Page 4***

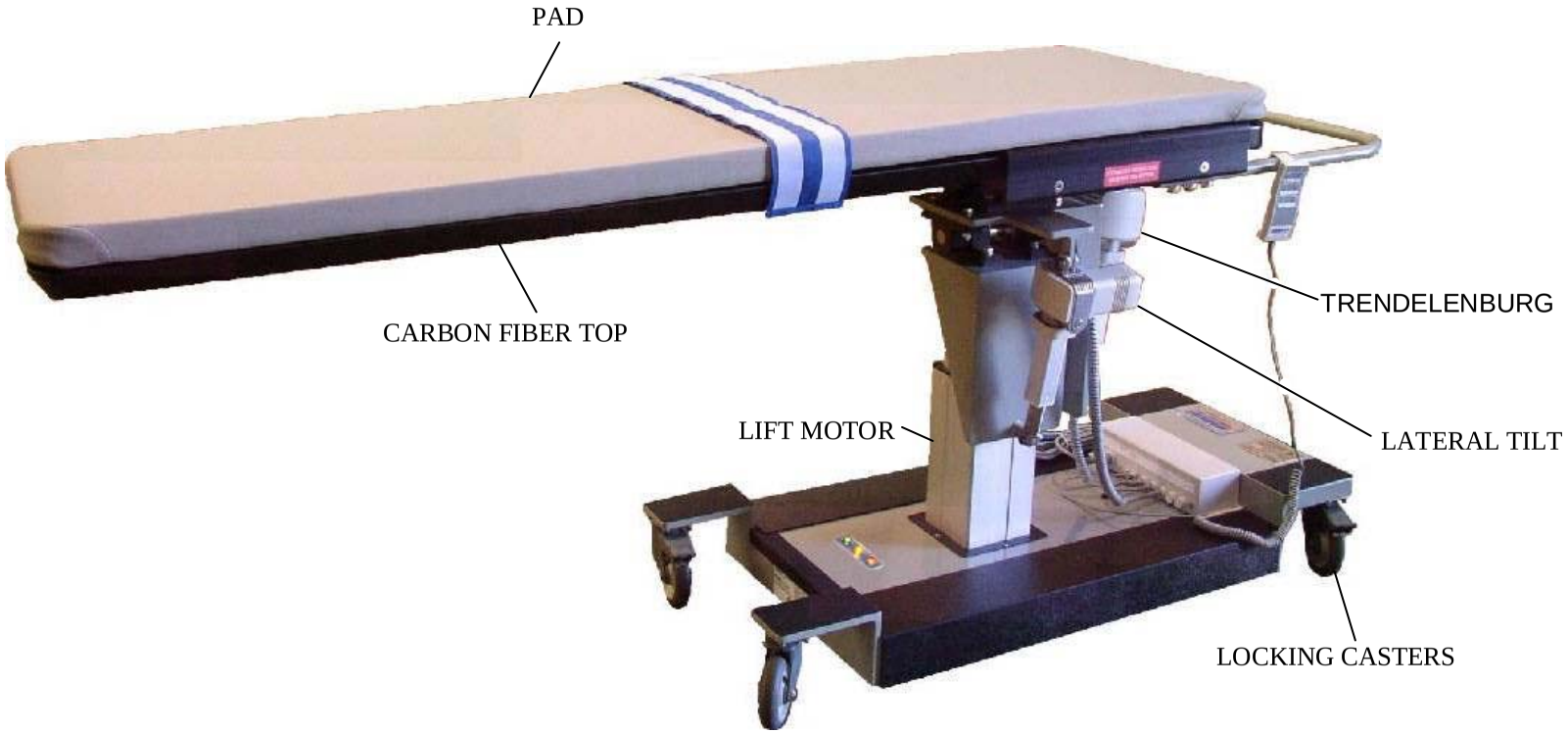
   B. Patient loading and unloading — ***Page 5***

   C. Hand Controls — ***Page 6***

4. **Status Procedures - Problems** — ***Page 12***

5. Agency Compliance — ***Page 13***

6. Service and Warranty information — ***Page 16***



BASIC-ONE™ SERIES SPECIAL PROCEDURE TABLES

Note: Some motors are located differently on some models

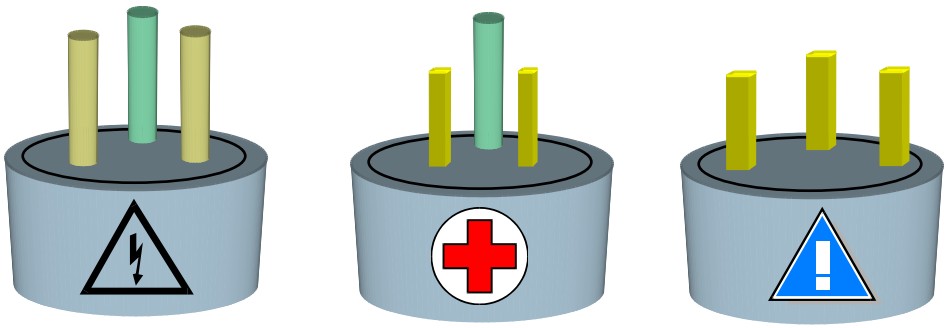
2.) How to Set-up the Table

Facility Requirements

Morgan MEDesign® tables require : VAC service rated at a continuous duty cycle of 15 amperes. Service must provide proper earth ground and may be equipped with a Ground Fault Interrupter (GFI) system.

Connecting the Electrical Power

VARIOUS PIN STYLES FOR MEDICAL PLUGS - DOMESTIC AND INTERNATIONAL STYLES VARY - CHECK FOR HOSPITAL GRADE SYMBOLS!



INSURE THAT ALL PLUGS AND OUTLETS, 110-130 VAC, 220-240 VAC, HAVE PROTECTIVE GROUND AS A THIRD LUG. DO NOT CONNECT TO UNGROUNDED OUTLETS OR WHERE THE GROUND CONNECTION IS SUSPECT!

Your special procedures table uses a hospital grade agency approved electrical cord and plug. Install in a receptacle in accordance with the facility requirements specified on your model.

WARNING:

RISK OF ELECTRICAL SHOCK. SYSTEM MUST BE PROPERLY GROUNDED.

FOLLOW NATIONAL ELECTRICAL CODE PROCEDURES TO ENSURE SAFE OPERATION

EMERGENCY:

SHOULD A EMERGENCY POWER OFF CONDITION BE REQUIRED-

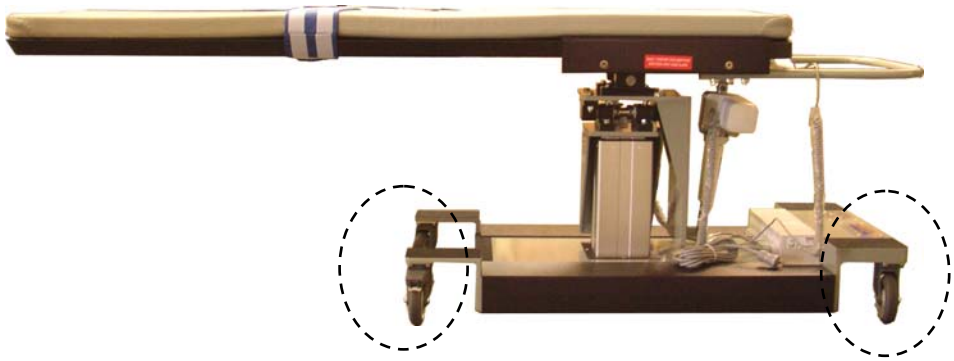
DEPRESS THE SAFETY BUTTON TO DISABLE POWER.

TO ENABLE, TWIST AND LIFT UPWARDS

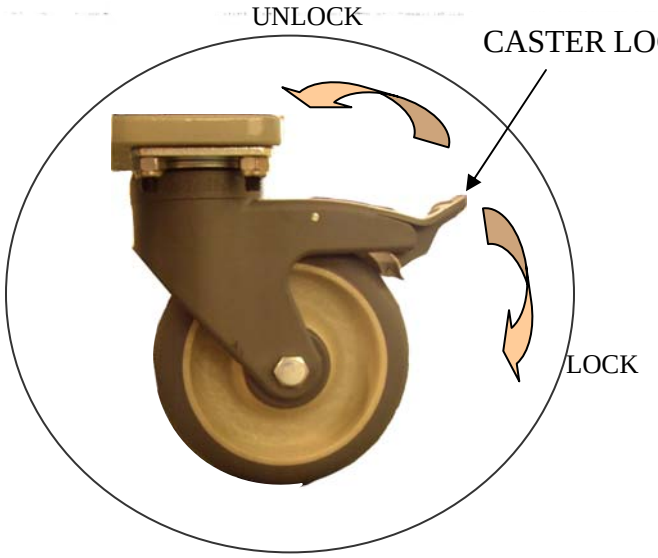
EMERGENCY SWITCH ON 2005, 2006 AND LATER MODELS

2.) How to Set-up the Table, Cont:

Warning: All casters must be in the locked position before any procedure can be performed.



THE UNIT IS SHIPPED WITH TWO LOCKING CASTERS AND TWO UNLOCKED CASTERS. THE OPERATOR IS CAUTIONED NOT TO REMOVE FACTORY MOUNTED CASTERS!



Locking the Casters

Locate the locking mechanism on each of the casters. Depressing the rear portion of the device will lock the caster. Depressing the forward section will unlock.

NOTE THAT WHEN LOCKED, CONSIDERATION SHOULD BE MADE AS TO THE CASTER WHEEL DIRECTION FOR FUTURE MOVING OF THE TABLE SHOULD EMERGENCY OR OTHER TRANSPORT NEED ARISE.

3.) Table Operation

Definition of Table Motions

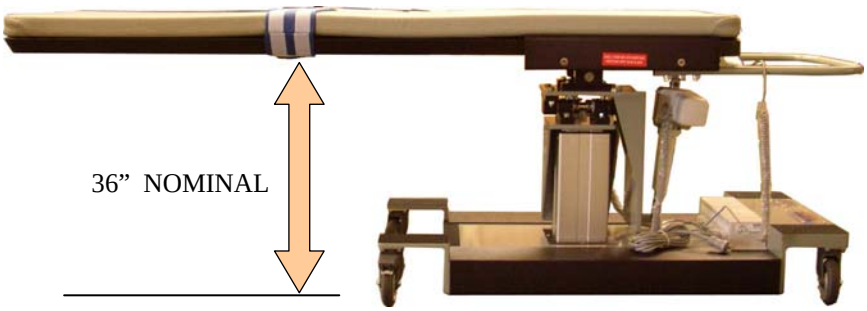
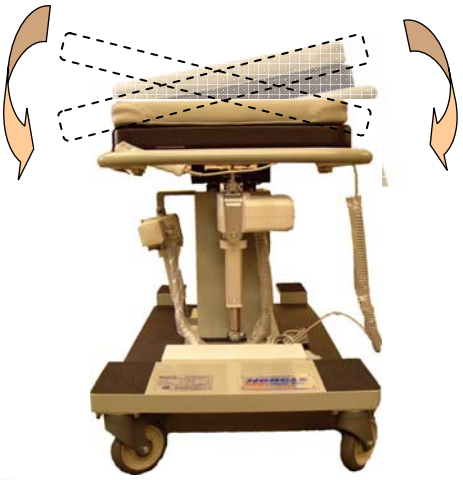


TABLE HEIGHT ADJUST

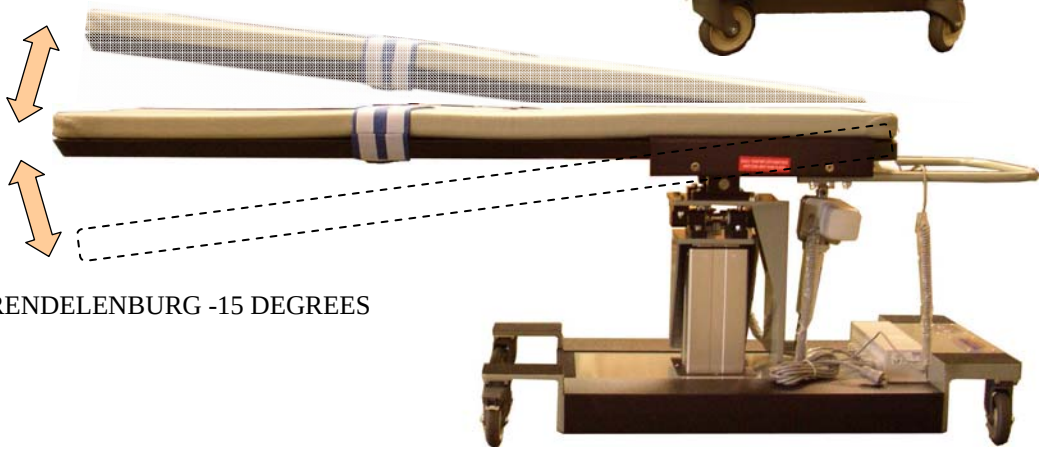
LATERAL TILT +15 DEGREES

LATERAL TILT -15 DEGREES

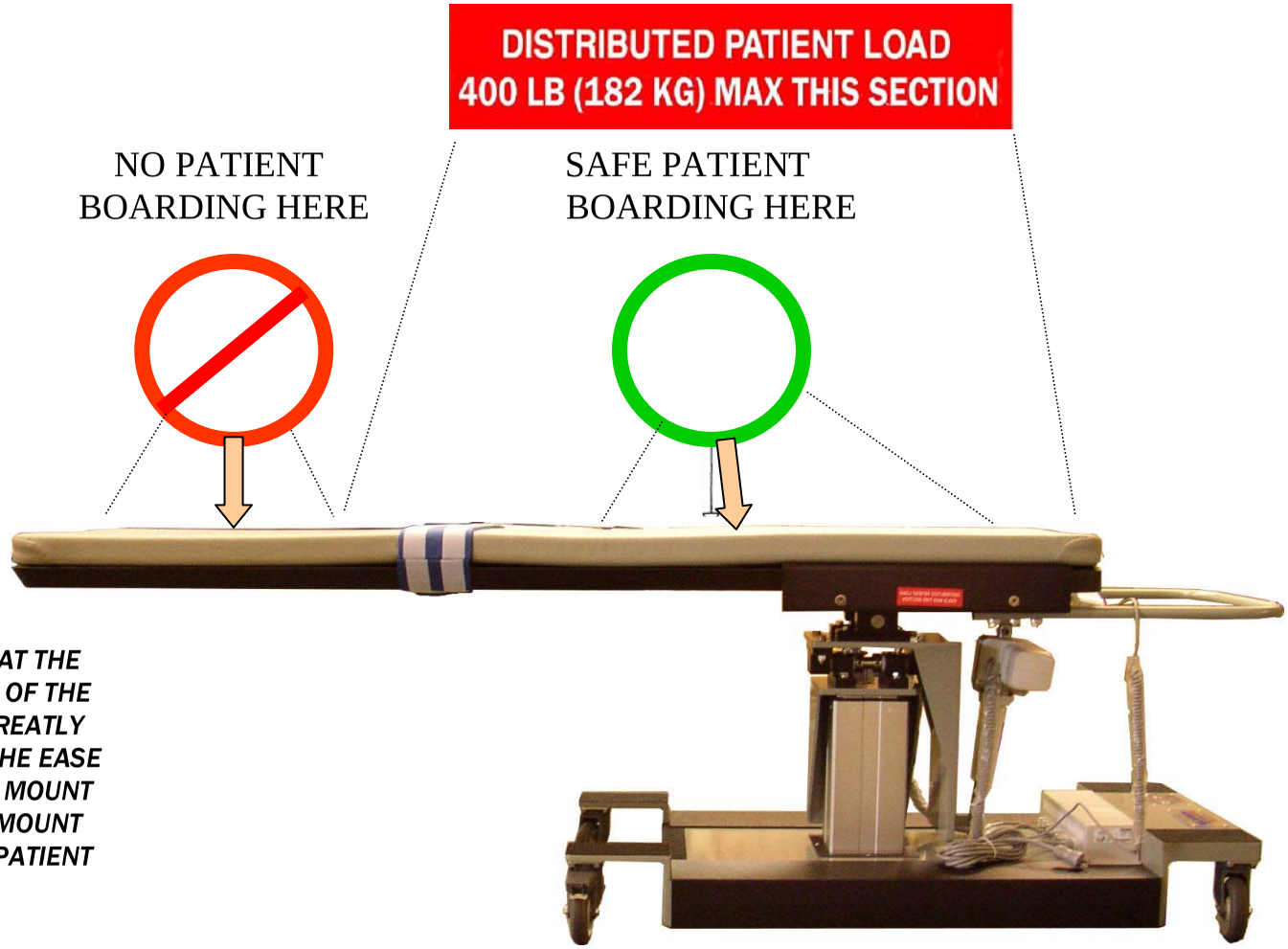


TRENDELENBURG +15 DEGREES

TRENDELENBURG -15 DEGREES



NOTE THAT THE POSITION OF THE TABLE GREATLY AFFECTS THE EASE OF TABLE MOUNT AND DISMOUNT FOR THE PATIENT



NOTE THAT THE POSITION OF THE TABLE GREATLY AFFECTS THE EASE OF TABLE MOUNT AND DISMOUNT FOR THE PATIENT

Patient Boarding procedure

3.) Table Operation, Cont:

Hand Controls

Note: The **REMOTE HAND CONTROLLER** is attached to the main control unit on the base and provides switch contacts to activate a low voltage (12 volt) series of relays that control the motors that move the table into its various positions. **UNDER NO CIRCUMSTANCES SHOULD YOU ATTEMPT ACCESS INTO THE SEALED HAND CONTROLLER**. The Hand Controller may be inserted into a sterile bag for use on the sterile field. Some operators have attached the hand control to their garment using a Velcro™ or similar strip or tape.

Warning: Morgan MEDesign™ Tables are rated for maximum DISTRIBUTED patient loading of 400 lbs.

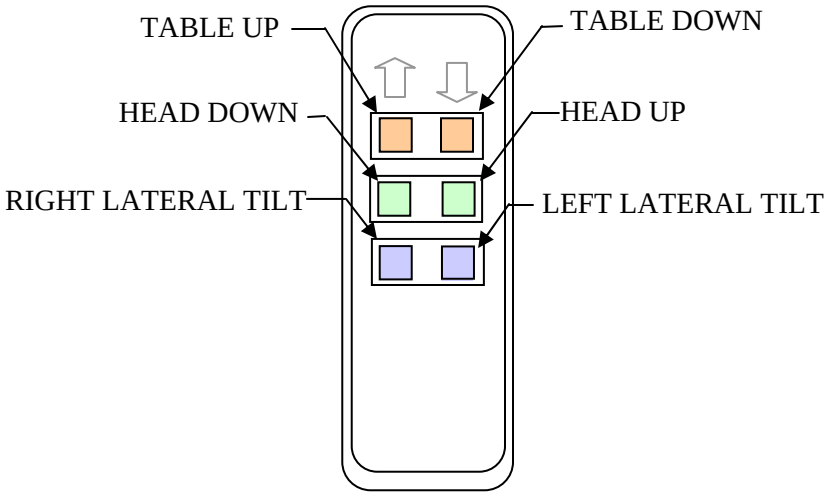
REFER TO PATIENT BOARDING PROCEDURE ON PAGE 5 OF THIS MANUAL

Note: Patients must be "log rolled" or board the table at the center (over the main lifting column) as shown. **ALLOWING ANYONE TO SIT ON THE LAST 3 FEET OF THE HEAD END OF THE TOP CONSTITUTES ABUSE AND MISUSE AND MAY VOID THE MEDesign™ limited WARRANTY. Should damage occur to the carbon fiber top through impact or other incident, IT IS SOLELY THE PURCHASER'S OBLIGATION TO NOTIFY MEDesign™ OF THIS ABUSE SO THAT A PROFESSIONAL EXAMINATION OF THE TOP CAN BE PERFORMED, AT PURCHASER'S EXPENSE.**

3.) Table Operation, Cont:

HAND CONTROLLER FUNCTIONS

THREE MOTOR DRIVE MODELS

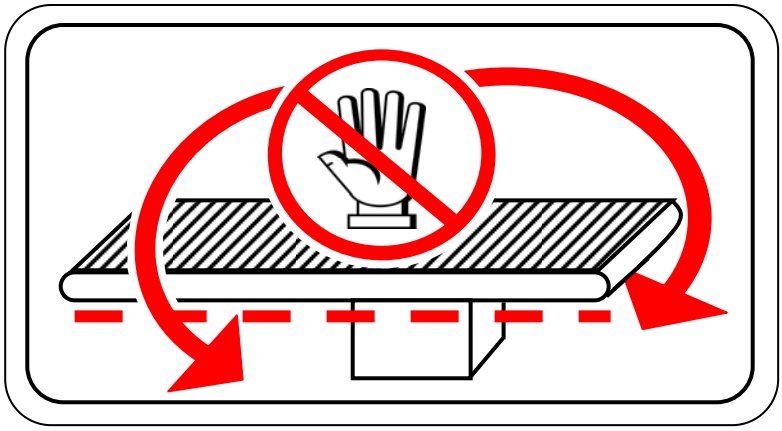


COLORS SHOWN FOR CLARITY IN PAIR ASSIGNMENT OF SWITCH FUNCTIONS

3.) Table Operation, Cont:

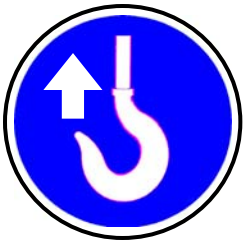
MOVING PARTS- RESTRICTED ZONES

Insure that patient's body extremities not be allowed to access any moving mechanism below the top of the table on any side. The operator of the table must at all times be aware of any limb or other object that may impede the motion of the table or in any way become a danger to the patient. **Restrict all patients to the upper confines of the table mat at all times**, even when the table is not in motion and when mounting or dismounting the patient.



TRANSPORT POINTS

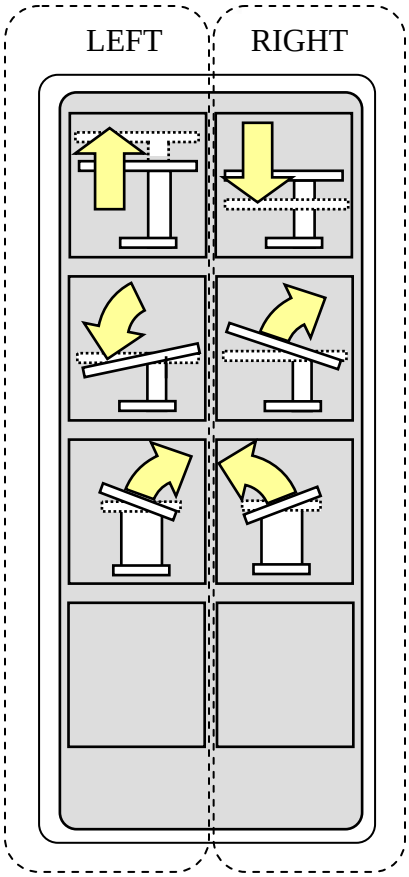
Transport of the table is safely accomplished by lifting the table at the four (4) hoisting points indicated by the label seen on the right. All four points must be used simultaneously as these provide a balanced distribution of table weight.



WARNING – CARDIAC COMPRESSIONS

Cardiac pressure compressions onto a patient may upset the table unless the top is fully retracted. Observe the weight limit and loading mandates. Labels to remind you are on both sides of the table.

3.) Table Operation, Cont:



HAND CONTROLLER USE

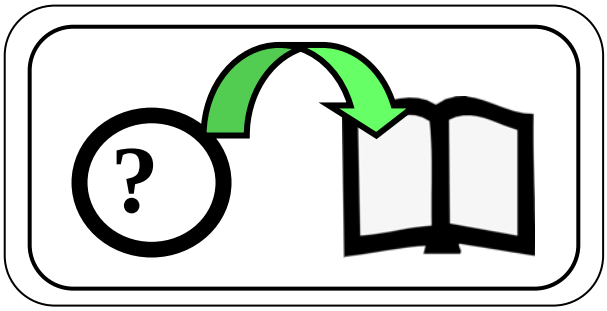
This table can be configured to perform in several ways and there are some table models that do not have all the motion features.

A label placed on the back of the Hand Controller depicts the various position movements when the appropriate button is depressed on the front of the controller. We strongly recommend that a single motion be instigated at any one time so as to allow full visual understanding of the table's motion.

The motions are featured in pairs and as such there is a "left – right" relationship in the button controls.

Activating the "left" activating button will not permit the adjacent "right" button activation until the "left function" has been performed.

Activating the "right" activating button will not permit the adjacent "left" button activation until the "right function" has been performed.



REFERENCE TO THE MANUAL

It is important to refer to this manual should any question arise with regard to the proper use of this table. If the appropriate answer is not found you may call the Customer Service number found at the end of this manual.

3.) Table Operation, Cont:

ACCESS PROHIBITED

Control electronics are provided in a sealed enclosure. It is imperative that only **AUTHORZIED PERSONS** familiar with the working voltages and safety regulations of such devices attempt to access the control console interior. The following label warning must be observed and any unauthorized access immediately cancels the warranty.

MAINTENANCE SCHEDULE AND INSPECTION

When you receive your table you must immediately date the maintenance schedule provided on the base. It is the responsibility of the user to have annual inspections and cleaning of the table to continue the validation of the warranty. This process includes a visual inspection of all moving components and joints and the cleaning of all patient contact surfaces. Examine the soft control tubes leading to the hand controller for kinks or cracks. Insure that all electrical cords are not worn or frayed. Remove any grease or soil from surfaces that may be contacted by patient or user. Check that all fasteners are secure. Make sure all labels are in place and continue to be visible.

- ☑ **HARNESS TO HAND CONTROL**
- ☑ **ELECTRICAL WIRING**
- ☑ **FASTENERS**
- ☑ **COSMETIC SURFACES**
- ☑ **CLEAN MATS, ACCESS AREAS**
- ☑ **LABELS IN PLACE**

When the inspection is complete initial the MAINTENANCE SCHEDULE, check the small box and insert the inspection date.

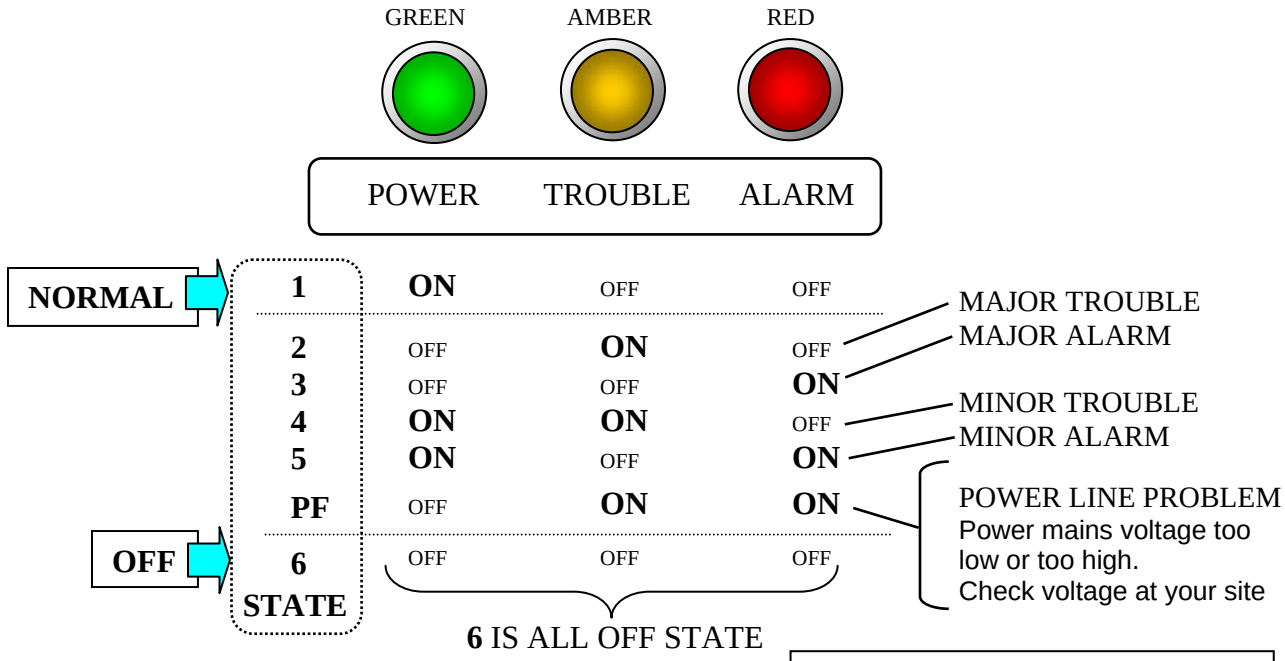
MAINTENANCE SCHEDULE
EL HORARIO DE MANTANIMIENTO

RECEIVED RECIBIDO	☑	___-200__	
+ 1 YEAR	☐	___-200__	
+ 2 YEARS	☐	___-20___	
+ 3 YEARS	☐	___-20___	
+ 4 YEARS	☐	___-20___	
+ 5 YEARS	☐	___-20___	

3.) Table Operation, Cont:

STATUS PANEL – ALSO SEE NEXT SECTION 4

Seven states define the status of the table as depicted below. This panel is at the base of your table. During the initial power sequence cycle all indicators will be in the "ON" state as a check for their operative condition. During this time the acoustic alarm is active.



RESULTING RESPONSE TO CONDITIONS

> ***NOTE***
> When power is first switched ON, ALL indicators are active for the duration of the acoustic alarm.

STATUS STATE 1 – NORMAL

STATUS STATE 2 – MAJOR TROUBLE
MAJOR TROUBLE – CONTACT THE FACTORY AS A CIRCUIT PROBLEM EXISTS

STATUS STATE 3 – MAJOR ALARM
MAJOR ALARM – DISCONTINUE TABLE USE IMMEDIATELY AND CONTACT THE FACTORY WITH AN EXACT REPORTING OF SERIAL NUMBER AND CONDITION

STATUS STATE 4 – MINOR TROUBLE
A MINOR PROBLEM SUCH AS MOTOR OVERHEATING EXISTS. RETRY OPERATION.

STATUS STATE 5 – MINOR ALARM
AN ALARM FROM MISOPERATION EXISTS. CYCLE POWER OFF-ON AND RETRY

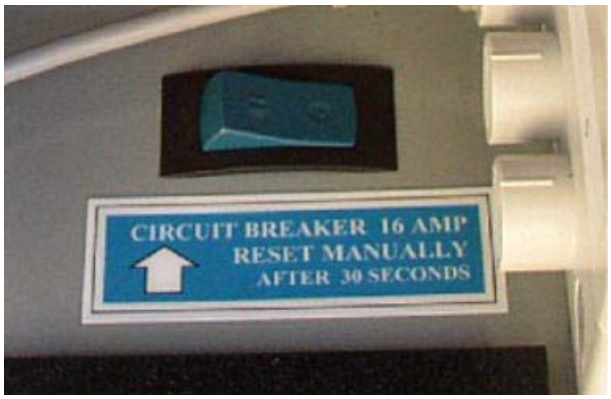
STATUS STATE 6 – ALL OFF, TABLE IS NOT CONNECTED TO MAINS
THIS MAY ALSO RESULT WHEN THE "POWER" INDICATOR HAS FAILED AND THE TABLE IS ATTACHED TO MAINS POWER OR WHEN THE "TROUBLE" OR "ALARM" INDICATORS HAVE FAILED IN A MAJOR PROBLEM MODE. IF UNIT IS ATTACHED TO MAINS AND THIS STATE IS SEEN CONTACT THE FACTORY AS THERE IS A CIRCUIT PROBLEM.

STATUS STATE PF – AC POWER FAULT - UNDER OR OVER MAINS VOLTAGE PROBLEM

4.) Status Procedures - Problems

This table is equipped with a STATUS MONITOR that conveys the STATUS of the ALARM and TROUBLE states that occasionally may occur. By far the most common problem is a loose STATUS bulb within the RED, AMBER and GREEN STATUS indicator lights.

DIAGNOSIS AND REMEDY OF BURNED OUT OR LOOSE BULB-
Should one of the three (6 volt) bulbs become inoperative an audio alarm will be heard in the form of a continuous high pitched tone and you may see one of the ALARM or TROUBLE lights on. The first step to evaluate the source of the problem is to power the table OFF using the switching action of the CIRCUIT BREAKER and pushing it to the "0" side.



Then turn power ON again by flipping the CIRCUIT BREAKER to the "1" state as seen on the handle of the CIRCUIT BREAKER. Watch the STATUS INDICATORS to see which bulb doesn't come ON during the first 5 seconds of power. That is the burned out or loose bulb. Turn the power OFF. Access the found problem bulb by twisting the lens-cap off counter-clockwise. Now wiggle the bulb to see if it was loose and retest using the same POWER-ON POWER-OFF sequence. If the bulb remains out pull the bulb out of its receptacle. Noting the blades that hold the bulb, carefully replace it with a new one. Test again and if successful replace the lens-cap. A spare bulb is shipped with the unit. Contact Morgan MEDesign™ for other bulbs or advice on any related problem.

OTHER ALARM and TROUBLE STATES-
The motor circuits self-reset in an over-load or over-duty situation. Simply wait a few minutes and try them again. If you find that the problem(s) persist contact Morgan MEDesign™ as soon as possible and a technician will assist you.

VOLTAGE PROBLEMS-
The circuits that constantly monitor the power voltage to the table will find safe operation from a voltage input of 95 to 135 AC volts in the case of 110 or 120 volt power, and from 200 to 235 AC volts in the case of 220 volt power. Alarms will annunciate if power input falls out of these ranges.

5.) Agency Compliance

This product has been designed to meet world standards that allow deployment within the European markets under the CE performance mandates. It is imperative that the equipment features not be modified or changed in any way, including the placement of all guiding labels. This manual must always be within local proximity of the product as a provided reference. The following European compliance standards have been used as guidelines in the manufacture and design of this product:

Electromagnetic Compatibility	(EMC)	Directive 89 / 336 / EEC
Low Voltage Equipment	(LV)	Directive 73 / 23 / EEC
Medical Devices General	(MD)	Directive 93 / 42 / EEC
Machinery Safety	(MS)	Directive 98 / 37 / EC

98/37/EC
89/336/EEC
73/23/EEC
93/42/EEC

CE®

The CE mark (an acronym for the French "Conformite Europeene") certifies that this product has met EU health, safety, and environmental requirements, which ensure consumer and workplace safety. Morgan MEDesign® in the United States has met CE mark requirements where applicable.

WARNING: DISCONNECT SUPPLY BEFORE SERVICING.
CAUTION: ELECTRIC SHOCK HAZARD. DO NOT REMOVE COVER. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.
C SP® US
190473
GROUNDING RELIABILITY CAN ONLY BE ACHIEVED WHEN EQUIPMENT IS CONNECTED TO AN EQUIVALENT RECEPTACLE MARKED "HOSPITAL ONLY" OR "HOSPITAL GRADE."
DANGER: RISK OF EXPLOSION IF USED IN THE PRESENCE OF FLAMMABLE ANESTHETICS.
B1

The label above is required on all versions of this table. DO NOT REMOVE any label that has the CSA or CE compliance information or any label that cautions the user towards the operation of the table or controller assemblies. DO NOT OBSCURE any label with stickers, notes, papers or other appliances or attachments. Any questions with regard to the compliance regulations or conformance specifications should be directed to Morgan MEDesign®, Inc. at the address and phone numbers provided on the nameplate of the table.

5.) Agency Compliance

Per CSA requirements, the following specifications are noted:

1.) Total system rating 120VAC, 60Hz,12.5A

2.) Intermittent duty cycle: 3 cycles @ 400 lbs. max. (5 minute off period between cycles)

3.) Type of equipment:

Electromedical Medical Procedure Table, cord connected.

C SA® US
190473

4.) Class I Type B

5.) Reference: CSA standard C22.2 No. 125

6.) CSA File number: 190473

DANGER--RISK OF EXPLOSION IF USED IN THE PRESENCE OF FLAMMABLE ANESTHETICS.

CAUTION--ELECTRICAL SHOCK HAZARD. DO NOT REMOVE ELECTRICAL COVERS, REFER SERVICING TO QUALIFIED PERSONNEL.

WARNING: DISCONNECT POWER SUPPLY CORD BEFORE SERVICING.

5.) Agency Compliance

NAMEPLATE

National and International Regulations require that the NAMEPLATE below stays an integral part of your product. It is not to be removed under any circumstances as it defines the model and serial number of your product as well as providing compliance information. Make every attempt to protect this NAMEPLATE and the information on it. All reference to this product should include the model and serial number that is seen on this NAMEPLATE. Morgan MEDesign®, Inc. recommends that you keep a copy of this information in your corporate records

MORGAN MEDesign ®, Inc.

Always "Just What The Doctor Ordered"

Phone (United States) -707-568-2929

MFG. BY MORGAN MEDESIGN ™, INC. SANTA ROSA, CALIFORNIA ~ U.S.A.

MODEL # _____ **SERIAL #** _____

DATE OF MFG. _____

ELECT. MAX AMPS 12.5 - INTERMITTENT

50 HZ – 220 VAC ☐

60 HZ – 120 VAC ☐

C CSA® US

CE®

98/37/EC
89/336/EEC
73/23/EEC
93/42/EEC

190473

CSA Standard C22.2 No. 601.1
CSA Certified 120V 60 Hz only
Class I Type B

The NAMEPLATE above is required on all versions of this table. DO NOT REMOVE any label that has the CSA or CE compliance information or any label that cautions the user towards the operation of the table or controller assemblies. DO NOT OBSCURE THIS or ANY label with stickers, notes, papers or other appliances or attachments. Any questions with regard to the compliance regulations or conformance specifications should be directed to Morgan MEDesign®, Inc. at the address and phone numbers provided above.

6.) Service and Warranty

There are NO user serviceable electrical or mechanical parts or components contained within this product. No preventative maintenance is required for normal use during the warranty period. Should any service ever be required, contact Morgan MEDesign® toll-free.

COUNTRY CODE 01
888-799-4633

WITHIN U.S.A. – 1-888-799-4633

Cleaning of your Table

Use a non-abrasive, bleach free spray cleaner and soft cloth to clean painted metal surfaces, carbon fiber top, and the vinyl pad. If you are unsure of a cleaning product, try a small amount under a wheel "fender" area first.

Limited Warranty

BASIC-ONE™

This warranty shall provide for a period of 4 years after the date of written acceptance by MMI. This warranty shall apply only to the original purchaser and is not transferable. During the warranty period, MMI will promptly repair or replace a product that is found to have manufacturing defects. MMI's liability under this warranty shall be limited to repairing or replacing the defective product and MMI may elect between repair and replacement. MMI shall not be responsible for any consequential damages and for customer's loss of profits, business good will, or other consequential damage, despite any failure to repair or replace the Product. Customer has accepted this restriction and acknowledges that the price of the Product would be higher if MMI were required to be responsible for Customer's consequential damages. MMI makes every effort to ensure that the Product designs are innovative, original and unique to MMI, however, MMI does not warrant that the Product is or will be delivered free of any person's claim of Patent, Trademark or similar intellectual property right infringement. There are no warranties that extend beyond the description of the Product provided on the face of this contract. MMI disclaims any warranty of any other kind, including any warranty that the Product is merchantable or fit for a particular purpose. MMI further limit s its liability of any kind with respect to the Product, including any negligence on its part, to the purchase price of the Product. MMI's sole liability and Customer's exclusive remedy are stated in this warranty.